

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: SATECH GROUP A.B. LIMITED LIABILITY COMPANYApplication No./Patent No.: 09/733,629 Filed/Issue Date: December 8, 2000Entitled: METHOD AND APPARATUS FOR AN INCREMENTAL UPDATE OF A LONGEST PREFIX MATCH LOOKUP TABLESATECH GROUP A.B. LIMITED LIABILITY COMPANY, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_%)

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

**OR**

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: See Attached Appendix, Line 19 To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☒ Additional documents in the chain of title are listed on a supplemental sheet.☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Robert J. Irvine III/June 6, 2008

Signature

Date

Robert J. Irvine III312-913-0001

Printed or Typed Name

Telephone Number

Attorney of Record

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## APPENDIX

### Issued Patents

Line No.	Patent Number	Title	Issue Date	Recordation Information
1.	6,775,281 (08-533)	METHOD AND APPARATUS FOR A FOUR-WAY HASH TABLE	August 10, 2004	<p>Reel/Frame: 010320/0448  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
2.	6,862,287 (08-533-US-CIP)	METHOD AND APPARATUS FOR A FOUR-WAY HASH TABLE	March 1, 2005	<p>Reel/Frame: 013448/0910  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 020845/0380  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
3.	6,728,744 08-534-US	WIDE WORD MULTIPLIER USING BOOTH ENCODING	April 27, 2004	<p>Reel/Frame: 014417/0462  Assignors: AMER, MAHER  Assignee: MOSAID TECHNOLOGIES, INC. AND CHRYSALIS-ITS INC.</p> <p>Reel/Frame: 014417/0751  Assignors: CHRYSALIS-ITS INC.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021050/0032  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>

Line No.	Patent Number	Title	Issue Date	Recordation Information
4.	7,136,961 (08-535-US)	METHOD AND APPARATUS FOR WIDE WORD DELETION IN CONTENT ADDRESSABLE MEMORIES	November 14, 2006	Reel/Frame: 014231/0463 Assignors: ROTH, ALAN, ET AL. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY
5.	6,539,369 (08-536-us4)	METHOD AND APPARATUS FOR STORING SPARSE AND DENSE SUBTREES IN A LONGEST PREFIX MATCH LOOKUP TABLE	March 25, 2003	Reel/Frame: 011617/0240 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 020845/0380 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY
6.	6,836,771 08-536-US-CON	METHOD AND APPARATUS FOR STORING SPARSE AND DENSE SUBTREES IN A LONGEST PREFIX MATCH LOOKUP TABLE	December 28, 2004	Reel/Frame: 020845/0380 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY
7.	6,839,825 08-537-US2	METHOD AND APPARATUS FOR LOGICALLY EXPANDING THE WIDTH OF MEMORY	January 4, 2005	Reel/Frame: 012223/0167 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 020845/0380 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY

Line No.	Patent Number	Title	Issue Date	Recordation Information
8.	6,880,064 08-537-US3	METHOD AND APPARATUS FOR PHYSICAL WIDTH EXPANSION OF A LONGEST PREFIX MATCH LOOKUP TABLE	April 12, 2005	Reel/Frame: 012189/0615 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 020845/0380 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY
9.	6,691,218 08-536-US	METHOD AND APPARATUS FOR LONGEST MATCH ADDRESS LOOKUP	February 10, 2004	Reel/Frame: 011621/0928 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 020845/0380 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY
10.	6,279,088 08-532-US-DIV2	MEMORY DEVICE WITH MULTIPLE PROCESSORS HAVING PARALLEL ACCESS TO THE SAME MEMORY AREA	August 21, 2001	Reel/Frame: 020837/0596 Assignors: ELLIOTT, DUNCAN G. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 020837/0985 Assignors: SNELGROVE, MARTIN Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY

Line No.	Patent Number	Title	Issue Date	Recordation Information
11.	5,956,274 08-532-US- CON2	MEMORY DEVICE WITH MULTIPLE PROCESSORS HAVING PARALLEL ACCESS TO THE SAME MEMORY AREA	September 21, 1999	<p>Reel/Frame: 008489/0485 Assignors: ELLIOTT, DUNCAN, ET AL. Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 020837/0596 Assignors: ELLIOTT, DUNCAN G. Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 020837/0985 Assignors: SNELGROVE, MARTIN Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
12.	5,570,381 08-583	SYNCHRONOUS DRAM TESTER	October 29, 1996	<p>Reel/Frame: 007544/0372 Assignors: SCHOFIELD, PAUL JONATHAN Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
13.	5,822,333 08-584	DIGITAL MEMORY TESTING METHOD	October 13, 1998	<p>Reel/Frame: 008514/0626 Assignors: FOSS, RICHARD C. Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
14.	7,003,625 08-851-US	SEARCHING SMALL ENTITIES IN A WIDE CAM	February 21, 2006	<p>Reel/Frame: 014244/0611 Assignors: KING, LAWRENCE Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 020837/0962 Assignors: KING, LAWRENCE Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>

Line No.	Patent Number	Title	Issue Date	Recordation Information
15.	7,194,574 08-851-US- CON	SEARCHING SMALL ENTITIES IN A WIDE CAM	March 20, 2007	Reel/Frame: 020837/0962 Assignors: KING, LAWRENCE Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY

## APPENDIX

### Pending Applications

Line No.	Application Number	Title	Filing Date	Recordation Information
16.	11/069,635 08-533-US- CON	METHOD AND APPARATUS FOR A FOUR-WAY HASH TABLE	February 28, 2005	<p>Reel/Frame: 020845/0380  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
17.	11/548,766 (08-535-us-div)	METHOD AND APPARATUS FOR WIDE WORD DELETION IN CONTENT ADDRESSABLE MEMORIES	October 12, 2006	<p>Reel/Frame: 021045/0682  Assignors: ROTH, ALAN, ET AL.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
18.	11,099,724 08-537-US- CON	METHOD AND APPARATUS FOR PHYSICAL WIDTH EXPANSION OF A LONGEST PREFIX MATCH LOOKUP TABLE	April 6, 2005	<p>Reel/Frame: 020845/0380  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>
19.	09/733,629 08-536-US3	METHOD AND APPARATUS FOR AN INCREMENTAL UPDATE OF A LONGEST PREFIX MATCH LOOKUP TABLE	December 8, 2000	<p>Reel/Frame: 011697/0304  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 020845/0380  Assignors: BROWN, DAVID A.  Assignee: MOSAID TECHNOLOGIES, INC.</p> <p>Reel/Frame: 021040/0648  Assignors: MOSAID TECHNOLOGIES, INC.  Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY</p>

Line No.	Application Number	Title	Filing Date	Recordation Information
20.	09/886,659 08-537-US4	METHOD AND APPARATUS FOR LOGICALLY EXPANDING THE LENGTH OF A SEARCH KEY	June 21, 2001	Reel/Frame: 012217/0010 Assignors: BROWN, DAVID A. Assignee: MOSAID TECHNOLOGIES, INC.  Reel/Frame: 021040/0648 Assignors: MOSAID TECHNOLOGIES, INC. Assignee: SATECH GROUP A.B. LIMITED LIABILITY COMPANY